

## Q2-F2X(YG), Q2-F3X(YG)

YELLOW & GREEN STRIPED, FLEXIBLE,  
FLAME RETARDANT, POLYOLEFIN TUBING  
SHRINK RATIO 2:1 & 3:1



### Features/Applications

Dual color yellow and green striped polyolefin tubing primarily used to identify "ground" wires. It is flexible and flame retardant with permanent color properties, making it easy to install and identify. Used for light duty harnessing and ground wire identification.

- Operating temperature: -55°C to +135°C
- Minimum shrink temperature: 70°C
- Full recovery temperature: 100°C
- Approvals: File No. E236137, File No. 242540, 125°C, VW-1, 600V
- Meets: SAE-AMS-DTL-23053/5 Class 1 & 3, Sony-SS-00259
- Standard color: Yellow & green striped
- RoHS Compliant

| Technical Data  |                               |                        |
|---|-------------------------------|------------------------|
| Property  | Test Method                   | Typical Data           |
| Operating Temperature                                 | IEC 216                       | -55°C to +135°C        |
| Tensile Strength                                      | ASTM D 2671                   | >14 MPa                |
| Ultimate Elongation                                   | ASTM D 2671                   | > 600%                 |
| Longitudinal Shrinkage                                | UL 224                        | 0 ± 5%                 |
| Eccentricity  | ASTM D 2671                   | < 35%                  |
| Heat Aging<br>Tensile Strength<br>Ultimate Elongation | 175°C, 168 hrs.               | > 11 MPa<br>> 350 %    |
| Flammability  | VW-1                          | Pass                   |
| Dielectric Strength                                   | ASTM D 150                    | > 20kV / mm            |
| Voltage Withstand                                     | ASTM D 2671 / AC2500V. 1 min. | No Breakdown           |
| Volume Resistance                                     | ASTM D 2671                   | >10 <sup>14</sup> Ω.cm |
| Copper Stability                                      | UL 224                        | Pass                   |
| Copper Corrosion                                      | UL 224                        | No Corrosion           |

| Product Dimensions (2:1) Q2-F2X(YG) |                        |                        |                       |                              |
|-------------------------------------|------------------------|------------------------|-----------------------|------------------------------|
| Size (Inch)                         | As Supplied (mm)       | After Recovered (mm)   |                       | Standard Spool *(SS) (Meter) |
|                                     | Inside Diameter (min.) | Inside Diameter (max.) | Wall Thickness (min.) |                              |
| 3/64                                | 1.2                    | 0.6                    | .33                   | 200                          |
| 1/16                                | 1.6                    | 0.8                    | .36                   | 200                          |
| 3/32                                | 2.4                    | 1.2                    | .44                   | 200                          |
| 1/8                                 | 3.2                    | 1.6                    | .44                   | 200                          |
| 3/16                                | 4.8                    | 2.4                    | .56                   | 100                          |
| 1/4                                 | 6.4                    | 3.2                    | .56                   | 100                          |
| 5/16                                | 8.0                    | 4.0                    | .56                   | 100                          |
| 3/8                                 | 9.5                    | 4.8                    | .56                   | 100                          |
| 1/2                                 | 12.7                   | 6.4                    | .65                   | 50                           |
| 5/8                                 | 16.0                   | 8.0                    | .69                   | 50                           |
| 3/4                                 | 19.1                   | 9.5                    | .80                   | 50                           |
| 1                                   | 25.4                   | 12.7                   | .90                   | 50                           |
| 1 1/4                               | 31.8                   | 15.9                   | .90                   | 50                           |
| 2 1/2                               | 38.1                   | 19.1                   | 1.02                  | 50                           |
| 2                                   | 50.8                   | 25.4                   | 1.02                  | 50                           |
| 3                                   | 76.2                   | 38.1                   | 1.20                  | 30                           |
| 4                                   | 101.6                  | 50.8                   | 1.30                  | 30                           |

| Product Dimensions (3:1) Q2-F3X(YG) |                  |                       |                        |                       |                              |
|-------------------------------------|------------------|-----------------------|------------------------|-----------------------|------------------------------|
| Size (Inch)                         | As Supplied (mm) |                       | After Recovered (mm)   |                       | Standard Spool *(SS) (Meter) |
|                                     | Inside Diameter  | Wall Thickness (min.) | Inside Diameter (max.) | Wall Thickness (min.) |                              |
| 1/16                                | 1.6/0.5          | 0.51                  | 1.6                    | 0.5                   | 200                          |
| 3/32                                | 2.4/0.8          | 0.51                  | 2.4                    | 0.8                   | 200                          |
| 1/8                                 | 3.2/1.0          | 0.55                  | 3.2                    | 1.0                   | 200                          |
| 3/16                                | 4.8/1.5          | 0.60                  | 4.8                    | 1.5                   | 100                          |
| 1/4                                 | 6.4/2.0          | 0.65                  | 6.4                    | 2.0                   | 100                          |
| 3/8                                 | 9.5/3.0          | 0.75                  | 9.5                    | 3.0                   | 100                          |
| 1/2                                 | 12.7/4.0         | 0.75                  | 12.7                   | 4.0                   | 50                           |
| 3/4                                 | 19.1/6.0         | 0.85                  | 19.1                   | 6.0                   | 50                           |
| 1                                   | 25.4/8.0         | 1.00                  | 25.4                   | 8.0                   | 50                           |
| 1 1/2                               | 39/13.0          | 1.15                  | 39.0                   | 13.0                  | 50                           |

- Notes:
1. \* See page 13 - Part Number Guide for standard packaging codes.
  2. Cross Reference Guide located on page 3.
  3. Special sizes, packaging, colors and cut pieces are available upon request.